

REMARKS

Claims 1-14 are pending. By this Amendment, Claims 1-11 are amended and Claims 12-14 are added. Support for the amendments to the claims can be found on at least page 18, lines 11-23, page 20, lines 10-11, and Figures 3-5 of the application as originally filed. As such, Applicants respectfully submit that no new matter is presented herein.

Form PTO-SB/08a

Applicants respectfully note the Form PTO-SB/08a attached to the Information Disclosure Statement dated August 15, 2006 and attached to the January 10, 2008 Office Action, has not been fully initialed by the Examiner indicating the Examiner has considered all the submitted references cited therein. Applicants respectfully request the Examiner consider the references and provide a copy of Form PTO-SB/08a with the Examiner's initials next to the cited references indicating the Examiner properly considered all the references. A copy of the PTO Form SB/08a is attached for the Examiner's convenience.

Rejections Under 35 U.S.C. §103

Claims 1-2 are rejected under 35 U.S.C. §103(a) as being unpatentable over Wallace et al. (US Patent No. 1,640,742, "Wallace") in view of Heathcote (U.S. Patent No. 4,833,352, "Heathcote") and Kazutomo et al. (Japanese Publication 2003-137609, "Kazutomo"). Claims 3-4 and 7-9 are rejected under 35 U.S.C. §103(a) as being unpatentable over Wallace in view of Heathcote. Claims 5-6 and 10-11 are rejected under 35 U.S.C. §103(a) as being unpatentable over Wallace in view of Heathcote and further in view of Kazutomo. To the extent that the rejections remain applicable to the

claims as amended, Applicants respectfully traverse the rejections for at least the following reason(s).

Claim 1 recites an electromagnetic fuel injection valve including, among other features, a valve operating part in which a valve body spring-biased in a direction to be seated in a valve seat is accommodated in a valve housing having the valve seat at a front end thereof.

Wallace recites an electromagnetic motor that includes a piston 21 contained within a cylinder 20 and a magnetic winding 26 that is adapted to operate the magnetic piston 21 and is mounted on and surrounds a portion of the cylinder 20. A casing 28 made of any suitable magnetic material surrounds the winding 26. See Col. 1, lines 41-64.

Applicants respectfully submit that Wallace does not teach or suggest each and every feature of Claim 1. The Office Action asserts that Wallace "discloses an electromagnetic fuel injection valve (i.e. piston 21, Col. 1, Line 57, See Figure 1), comprising: a valve operating part (21) in which a valve body (21) spring-biased (via spring 34, Col. 1, Lines 78) in a direction to be seated in a valve seat (i.e. Seat member 45 and 30, See Col. 2, Lines 5-10) is accommodated in a valve housing (81, Col. 3, Line 17) having the valve seat (i.e. seat member 45 and 30) at a front end thereof. . ." (see Page 3, lines 3-8). Applicants submit that identification of both elements in Wallace by the Office Action, i.e., the valve operating part and the valve body, as the same part (21), is physically impossible. The valve operating part (21) cannot exist within itself, spring-biased or not, as the Office Action asserts.

Moreover, contrary to the assertion in the Office Action that the valve body (21) in Wallace is spring-biased in a direction to be seated in a valve seat, Col. 2, lines 5-10 of Wallace specifically teaches that the funnel shaped end 45 of the piston 21 will be a predetermined distance away from the conical shaped end of the core 30 when the coil spring 34 maintains the piston 21 in the normal upper position, as shown in Fig. 1 (see also Col. 1, lines 105-107 and Col. 2, lines 116-119). Furthermore, Applicants disagree with the assertion that the “cover 81 that provides a dust and dirt proof guard for the circuit interrupter mechanism...” (see Col. 3, lines 6-10) corresponds to a valve housing, as asserted by the Office Action. Applicants submit that the valve seat (45 and 30) is not situated at the front end of anything resembling a valve housing. As can be seen by Figs. 1 and 2, the asserted valve seat (45 and 30) is intermediate to any feature of Wallace that corresponds to a valve housing.

For at least the reasons stated above, Wallace does not teach or suggest an electromagnetic fuel injection valve including, among other features, a valve operating part in which a valve body spring-biased in a direction to be seated in a valve seat is accommodated in a valve housing having the valve seat at a front end thereof, as recited by Claim 1.

Applicants respectfully submit that Heathcote and Kazutomo, alone or by any combination, do not cure the deficiencies of Wallace.

Heathcote discloses a stator assembly 10 in which a slidable magnetic core member 11 is coupled to a movable component 12 mounted in a housing 13. The Office Action asserts that Kazutomo “discloses a thermoplastic resin containing glass fibers.” See p.5, ll. 1-2. Applicants respectfully submit that Heathcote and Kazutomo,

alone or by any combination, do not teach or suggest an electromagnetic fuel injection valve including, among other features, a valve operating part in which a valve body spring-biased in a direction to be seated in a valve seat is accommodated in a valve housing having the valve seat at a front end thereof, as recited by Claim 1.

For at least the reason(s) stated above, the Applicants respectfully submit that Wallace, Heathcote, and Kazutomo, alone or by any combination, do not teach or suggest each and every one of the elements recited by Claim 1. As such, Applicants respectfully submit that one of ordinary skill in the art would not find it obvious to modify Wallace, Heathcote, and Kazutomo, alone or by any combination, to arrive at the features recited by Claim 1. Accordingly, Claim 1 is allowable over Wallace, Heathcote, and Kazutomo.

Claim 2 depends from Claim 1. Applicants respectfully submit that Claim 2 should be deemed allowable for at least the same reason(s) Claim 1 is allowable, as well as for the additional subject matter recited therein.

Similarly, Claims 3 and 7 each recite an electromagnetic fuel injection valve including, among other features, a valve operating part in which a valve body spring-biased in a direction to be seated in a valve seat is accommodated in a valve housing having the valve seat at a front end thereof.

The Applicants respectfully submit that Wallace, Heathcote, and Kazutomo, alone or by any combination, do not teach or suggest each and every feature of Claims 3 and 7 for the same reasons argued above with respect to Claim 1. As such, Applicants respectfully submit that one of ordinary skill in the art would not find it obvious to modify Wallace, Heathcote, and Kazutomo, alone or by any combination, to

arrive at the features recited by Claims 3 and 7. Accordingly, Claims 3 and 7 are allowable over Wallace, Heathcote, and Kazutomo.

Claims 4-6 depend from Claim 3 and Claims 8-11 depend from Claim 7. Applicants respectfully submit that Claims 4-6 and 8-11 should be deemed allowable for at least the same reason(s) Claims 3 and 7 are allowable, as well as for the additional subject matter recited therein.

Withdrawal of the rejections is respectfully requested.

New Claims 12-14

Claims 12-14 should be deemed allowable for at least the same reasons Claims 1-11 are allowable.

Conclusion

In view of the above, the Applicant respectfully requests withdrawal of the outstanding rejections, allowance of Claims 1-14, and the prompt issuance of a Notice of Allowability.

Should the Examiner believe anything further is desirable in order to place this application in better condition for allowance, the Examiner is requested to contact the undersigned at the telephone number listed below.

In the event this paper is not considered to be timely filed, the Applicants respectfully petition for an appropriate extension of time. Any fees for such an extension, together with any additional fees that may be due with respect to this paper, may be charged to counsel's Deposit Account No. 01-2300, **referencing docket number 107348-00596.**

Respectfully submitted,
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Sheet	1	of	1	Attorney Docket Number	107348-00596

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature	/Keith Coleman/	Date Considered	01/04/2008
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.